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Declass Review by NGA. NPIC/IPD-33/67 1 February 1967

	MEMORANDUM FOR:	Assistant for Technical Development, NPIC	
1	ATTENTION:		
	SUBJECT:	On-line Measuring System	
	REFERENCE:	NPIC/TDS/D/630-67	
•	to you by the re Objectives for a than we anticipa	t that we have not gotten our comments on reference quested date of 27 January. Review of the Development Digital Control Console has been more complicated ted. We have not yet finished our review, but will ors which we believe remain to be resolved.	
1	original specifi measuring equipm envisaged the us found by experie	elopment Objectives are apparently based on the cations for the units installed with the on-line ent. The original specifications for this equipment e of modems in the circuit at both ends. We have not that we can eliminate the modem thus saving in of per circuit for equipment as well as tenance costs.	25
	apparently derived RS232-B which is of signals over are involved in is desirable to any possibilities the computer systimates distribution of investigate the	erface specifications for the original units were ed from Electronic Industry Associates Specification designed to guarantee accurate and reliable transmission distances of up to 50 feet. Since far greater distances the circuits within we believe that it review the specification to insure that we minimize s of transmission loss or garbles. Additionally, since tem is being expanded to provide the capability for substantive intelligence at remote sites, we need to possible radiation problems and determine whether or ly with Federal Specification 2022.	25
	thoroughly in co on their 490 equ complies with ne ly making arrang their on-line eq exchange views o	advises that NSA has investigated these problems nnection with the remote equipment they have installed ipment. They further advise that the NSA equipment ither EIATRS232-B, nor MILSPEC 188-B. We are consequent-ements to contact the NSA engineers responsible for uipment and obtain their specifications as well as n any problems which may be encountered. We expect ssary information in hand by 7 February.	

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- 5. Aside from specifications, the Development Objectives lack any performance and acceptance criteria. A test plan should certainly be developed and made a part of any contract to procure additional equipment. The test specifications should be included with the Development Objectives.
- 6. According to the development objectives the console is intended to provide an inexpensive, easy to use measuring capability for the PI. If this is so, a number of the functions can probably be omitted. For example: what is the need for the ten 12-position dial switches for identifying points. Are the nixie tube displays really used? Are the thumb wheel preset switches needed?
- 7. Under the Phase II Contract for the Integrated System Design, is required to prepare design specifications for remote access equipment included within their concept. Their concept includes an inexpensive digitized-light table for use by the PI's. Do these Development Objectives overlap the specifications which is required to prepare? If so, I recommend we obtain their concurrence in the specifications and delete the requirement for this work from their contract. Close coordination with is essential to insure that all the functions necessary for the given operation and only those functions are included in the equipment. It would seem more logical to design equipment to perform specific functions at a given point in the PI exploitation process, rather than proceed with the development of an individual piece of equipment which may or may not fit in the total process.

Chief, Information Processing Division

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